

Capron 5202 HS BK-102

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Attachment 4

Honeywell

Capron® 5202 HS BK-102

Capron 5202 HS BK-102 is an unfilled, heat stabilized, pigmented black nylon 6,6, injection molding compound. It combines strength and stiffness as well as excellent chemical resistance. The addition of heat stabilizer system extends its retention of properties at elevated temperatures.

TYPICAL PROPERTIES

Print Version

	DATA	50°C (122°F)	ISO Test
PHYSICAL			
⇒ Density, g/cm ³	1.14	-	1183
Moisture, %	-	-	62
2.5 (50% RH)	-	-	-
8.5 (Saturation)	-	-	-
MECHANICAL			
⇒ Tensile Modulus, MPa	-	-	527
23°C	3,500	-	-
Tensile stress at yield, MPa	-	-	527
23°C	95	-	-
Tensile strain at yield, %	-	-	527
23°C	3	-	-
⇒ Nominal strain at break, %	-	-	527
23°C	15	-	-
Flexural Strength, MPa	-	-	178
23°C	100	-	-
Flexural Modulus, MPa	-	-	178
23°C	2,950	-	-
IMPACT			
Charpy Notched, kJ/m ²	-	-	179
23°C	4	-	-
Charpy Unnotched, kJ/m ²	-	-	179
23°C	62	-	-
THERMAL			
Melting Point, °C	280	-	3148
HDT A, °C	80	-	75
UL RATINGS			
Flammability Rating, 1.5mm	V-2	-	UL94
Relative Temperature Index, 1.6mm	-	-	UL746B
Mechanical w/o impact, °C	65	-	-
Mechanical w/ impact, °C	65	-	-
Electrical, °C	65	-	-

APPLICATIONS

Capron 5202 HS Bk-102 is generally recommended for applications requiring slightly higher temperature and stiffness, such as engine component, power tools guides, straps and other hardware.

PROCESSING GUIDELINES

Material Handling

Max. Water content: 0.25%

Product is supplied in sealed containers and drying prior to molding is not required. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 80 °C is recommended. Drying time is dependent on moisture level. Further information concerning safe handling procedures can be obtained from the Material Safety Data Sheet. Alternatively, please contact your Honeywell representative.

Typical Profile

Melt Temperature 280-305 °C

Mold Temperature 80-95 °C

Injection and Packing Pressure 35-175 bar